KSC Managing Projects and Resources Online

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Kennedy Space Center

March 23, 2005

Project Management Challenge

How does a Project Management Office provide a tool to project managers and team members that provides:

- A consistent, familiar, and easy to use interface?
- A consistent budget planning and cost performance tracking capability?
- Capabilities for task, issues, risk, & documentation management?
- Resource tracking and visibility?
- A central repository of all project information?
- A reduction in the number of PM tools required for project execution?
- Consistent data in one location used to support multiple customers?
- Standardized and custom reporting to meet varied customer requirements?
- The ability to meet the unique requirements of multiple organizations across the center?
- *and get people to use it?*

Our Answer…

KSC Projects and Resources Online (KPRO)

Plan, Track, and Report

KPRO System - Overview

Web Access

Client / Server scheduling

- Internet Explorer 5.5 (or later)
- MS Project Pro 2003

Database

- MS Project Server
- SQL Server
- KPRO Custom Tables

Electronic I/O

- File Transfer
- Scheduled System Job

Source Systems

- IFM
- 533s
- Contractor Systems
- Employee Data Warehouse
- Employee Competencies

Modified COTS based solution ---

- avoids the pitfalls of a home grown, difficult to maintain, NASA unique system
- provides an opportunity to stay current with industry advances
- yet provides a flexible and structured customization capability
- and allows developers to concentrate on NASA inherently unique needs and not re-inventing the wheel

Database / Server / Security

- Microsoft Project Server database using SQL Server engine.
- Utilize MS Project Server security software to manage security on custom web pages.
- System access using standard KSC User Login and password, allowing KPRO to adhere to center security requirements.
- System defined user roles with predetermined permission levels that are linked to project resource groups

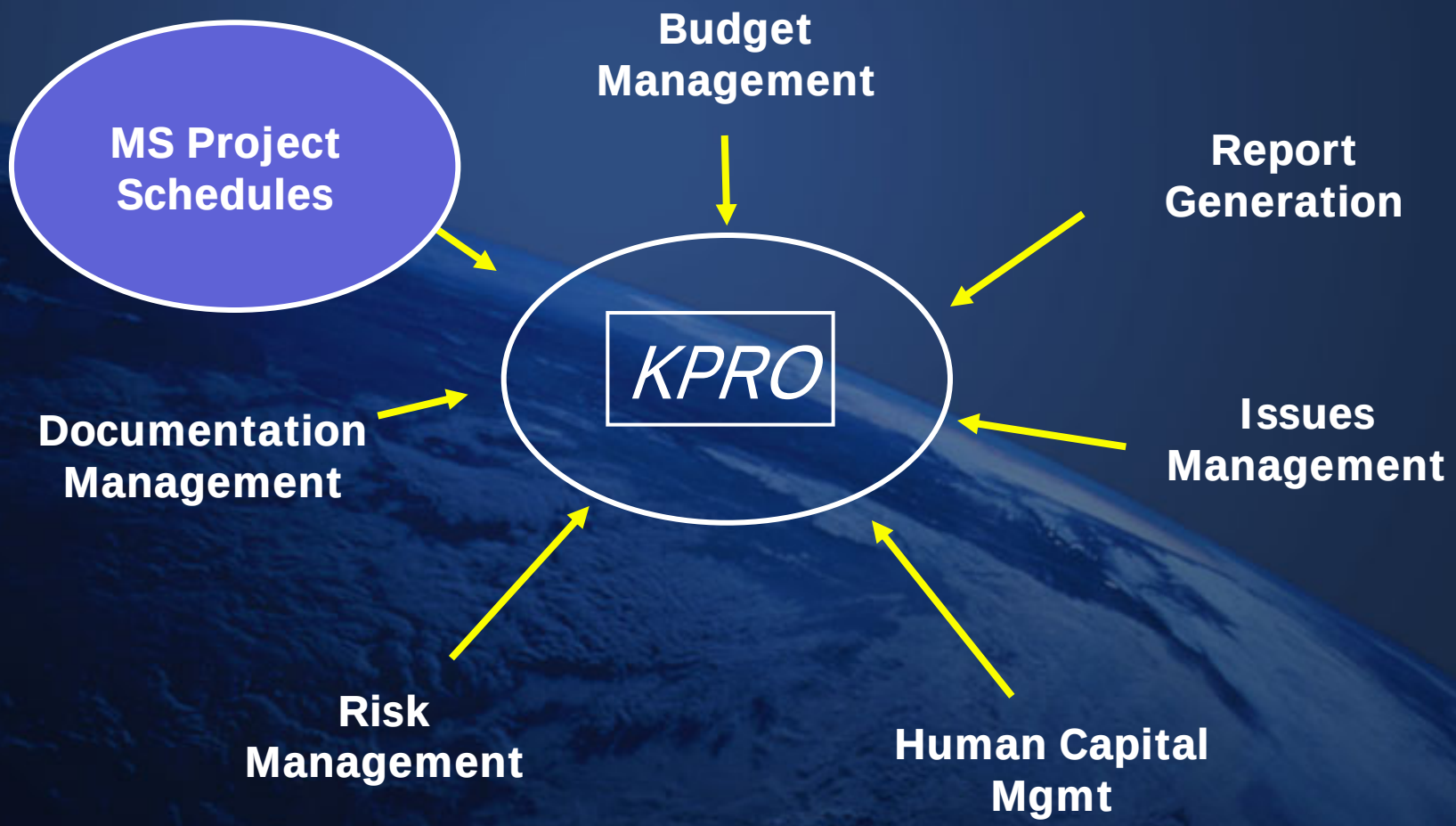
Interfaces

External system interfaces have been established to provide access to current information regarding;

- Project cost data from IFM and 533s
- Project cost data from contractor systems
- NASA defined competencies for resource assignments and civil servant FTE estimating at the project / fund source / program level
- NASA / contractor employee information such as email address, telephone number, organization used to establish a global resource pool

Schedule Management

Planning, Tracking, Reporting .....



Schedule Management

- MS Project Professional (2003) loaded on desktop computers of project managers, schedulers, and leads
- Schedules are saved in KPRO server database
  - Central repository of project schedules and utilized resources
  - Enables insight into the use, and availability of org. resources
  - Schedules can be developed off-line and checked out
- Uses standard MS Project features
  - KPRO developers enhanced Project tool bars and views
- Project Team Members can view and update schedules via Web Access
  - Web Access does not require Project Professional
  - Web Access uses Internet Explorer (5.5 or later)
  - Automatically informs team members and Project Managers of tasks, task updates, and action item assignments via email

Budget Management

Planning, Tracking, Reporting .....

Budget Management (cont.)

- Operating Plans
- Program Operating Plan
- Uses Web Access
- Based on standard MS Project Server “look and feel”

Operating Plans - PLANNING

The KPRO System provides a standardized capability for defining project fiscal plans.

- Project managers enter plans via the web interface
- All plans are maintained on the KPRO server
- The plans can be grouped by project manager, project office, major discipline areas, fund source and program.
- Three plan versions are supported
  - Draft --- PM working copy
  - Approved --- current plan, may be different from baseline
  - Baseline --- original plan established at the start of the FY

Operating Plans – PLANNING (cont'd)

- PMs submit plans for approval by the program
- Plans identify the following key information;
  - Program / Fund source
  - Project Advocate / Customer
  - Technical Advocate
  - Major discipline group
  - Project Description
  - Plan revision
  - Date submitted and approved

Operating Plans – PLANNING (cont.)

- Project plans include commitments, obligations, and cost phasing.
- Phasing plans are developed at organizational breaks within a project.
- Organization breaks are administratively defined via the web and can be tailored to different program needs.
- KPRO could automatically accept Operating Plan data from budget loaded project schedules, but all details would have to be in the schedule
  - Organizations tasked
  - Commitments vs. Obligations vs. Costs

Operating Plans - TRACKING

- KPRO facilitates tracking of cost performance (plan versus actual) for Projects, Fund Sources & Programs
- IFM cost data is associated to the organizational breaks using
  - WBS Element (ie. 76-374-aa-bb, 72-385-xx) "or"
    - ✓ Commitment Item "or"
    - ✓ Procurement document "or"
    - ✓ Contract document
  - Fund Center (ie. 76C4ALGSSP), then either
    - ✓ Commitment Item "or"
    - ✓ Procurement document "or"
    - ✓ Contract document
- Contractor cost information is associated to projects by task agreement numbers (ie. Task order #, agreement #, work package #)

Operating Plans – TRACKING (cont.)

- Cost actuals are loaded monthly and automatically associated to projects
- KPRO allows viewing of cost actuals at various levels
  - ✓ For projects, at organizational breaks
  - ✓ As project totals
  - ✓ By customer defined discipline breaks
  - ✓ By fund source level
- Provides comparison of Actual vs. Plan (baselined and approved plans).

Operating Plans - REPORTING

- Reporting can be tailored to meet specific program / customer needs. All the data is available to be formatted as required.
- Summary reporting is available at various levels
  - Project
  - Organization within projects
  - Fund source
  - Major Discipline groupings
  - Program

Program Operating Plan (POP)

POP Submission, Analysis, and Approval

- Uses a methodology very similar to Operating Plans
- Proposed Projects submit a Project Task Description Sheet (PTDS)
- Fund Source Manager enters dollar amount guidelines for next 12 fiscal years.
- Criteria and Weighting developed by POP Team and input into KPRO to produce prioritized project list for review.
- Discipline Managers enter additional Priorities into KPRO

  Example:
  - ✦ Urgency - 36%
  - ✦ Safety Improvement - 9%
  - ✦ Project In Work - 4%
  - ✦ New Technology Development/Commercialization - 9%
- POP Analysis
  - Fund Source Manager and POP Team work within KPRO to change individual project funding requests and priorities to meet fiscal guidelines.
- Fund Source Manager enters approval status for POP
  - POP Freeze
  - Program Review
  - POP Final

Program Operating Plan (cont'd)

PTDS Entry

- Project Manager can modify or create a new PTDS for an existing project or create a new project and PTDS
  - Main Information entry
    - Basic information about the project (e.g. PM, Advocate, Project Name)
  - Details
    - Provides details at the Budget Profile Organization (BPO) level
    - Data entered for each BPO (Labor hours, Other Direct Costs, Commitments, and Obligations)
  - Criteria
    - Allows the PM to assess the project priority against pre-established priority criteria using a 5 point scale
    - Criteria a weighted by the funding authority
  - Versioning
    - PM can leave PTDS as an in-work draft and submit for funding consideration

Program Operating Plan (cont'd)

Discipline Priority Evaluation

- A Discipline Manager can assess the priority of all projects submitted from his/her area
  - Ranking of all projects in a discipline area are displayed
  - Discipline Manager can view and modify the criteria assessment on individual projects within the discipline

Automated Analysis

- Tool uses assessed criteria, criteria weights, and Funding Source Guidelines to level the budget to meet funding source guidelines
- Some projects will be pushed to out-years or pulled in based on the year and amount of funding requested and the priority of the project

POP Analysis

- The Funding Authority can review the outcome of the automated analysis for the upcoming Fiscal Years and edit the budget request of individual projects based on need

Program Operating Plan (cont'd)

POP Adjustments Log

- The Funding Authority can keep a log of actions taken on individual projects

POP Freeze

- Throughout POP cycle, the Funding Authority can Freeze activity
  - Freeze is based on funding source and POP year
  - Funding Source can Freeze/unfreeze updates for:
    - All projects in the fund source
    - All projects in a discipline
    - An individual project (PTDS)

A Look to the Future

Earned Value Management

- KPRO is being used to support EVM on selected projects
- Project capabilities support planning for EVM
- Project lacks the capability necessary to do full EVM analysis
- We are using Project Connect to interface Project data with wInsight to perform full EVM analysis and reporting

Usability of KPRO at other sites

- KPRO can be deployed at other sites. It would have to be tailored to meet the unique needs of your organization
- Our development team can work with your team to establish a system to meet all of your needs

Summary

The KPRO tool provides

- A consistent, familiar, and easy to use interface.
- A consistent budget planning and cost performance tracking capability.
- Capabilities for task, issues, risk, & documentation management.
- Resource tracking and visibility.
- A central repository of all project information.
- A reduction in the number of PM tools required for project execution.
- Consistent data in one location used to support multiple customers.
- Standardized and custom reporting to meet varied customer requirements.
- The ability to meet the unique requirements of multiple organizations across the center.
- *and gets people to use it.*

Contact Information

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SCREEN SHOTS

Microsoft Project Web Access - kscpm1 - Microsoft Internet Explorer

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Address http://kscpm1/ProjectServer/home/homepage.asp?loading=1 Go Links

Home | Tasks | Projects | Resources | Status Reports | Updates | Documents | Issues | Fund Source | Reports | Admin | Log Off | Help |

Microsoft Project Web Access

Home

Activities in Home:

- Home Page
- Change password
- Set my e-mail notifications and reminders
- Set e-mail reminders for my resources
- Go offline
- KPRO Actual Load Status
- KPRO FAQ
- KPRO Help
- KPRO What Role am I?

Welcome to Microsoft Project Web Access, Griffin Laurie B

Updates

You have no changes to update into Microsoft Project.

Tasks

You have no new tasks assigned to you.

Issues

You have no active issues assigned to you.

Links

- Export Control
- KEDS
- KSC Business World
- Electronic Request for Shuttle Drawing
- KSC Lines of Business and Product Lines
- LCC Mgmt System Web Site
- LSE Project - IFM WBS Element Mapping
- NASA Earned Value Management
- NASA Lessons Learned
- NASA Procurement (MSO)
- New Agencywide Standards Update Notification System
- Online Shuttle Manifest
- Purchasing Guide
- TechDoc Search
- KPRO Users Guide
- SE&T Project Portal

Subscribe to receive e-mail notifications when items change.

Display Microsoft Project Web Access in Microsoft Outlook ...

Or display a digital dashboard in Outlook ...

Use the tabs across the top and the links on the left to navigate through Microsoft Project Web Access.

Local intranet

Start I.. L.. M.. s.. C.. h.. R.. G.. M. I:\ M. S.. 3:53 PM

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Address http://kscpm1/ProjectServer/Views/ProjectReport.asp?_projectID=501 Go Links

Home | Tasks | Projects | Resources | Status Reports | Updates | Documents | Issues | Fund Source | Reports | Admin | Log Off | Help |

Microsoft Project Web Access

LOX PUMP QUALIFICATION

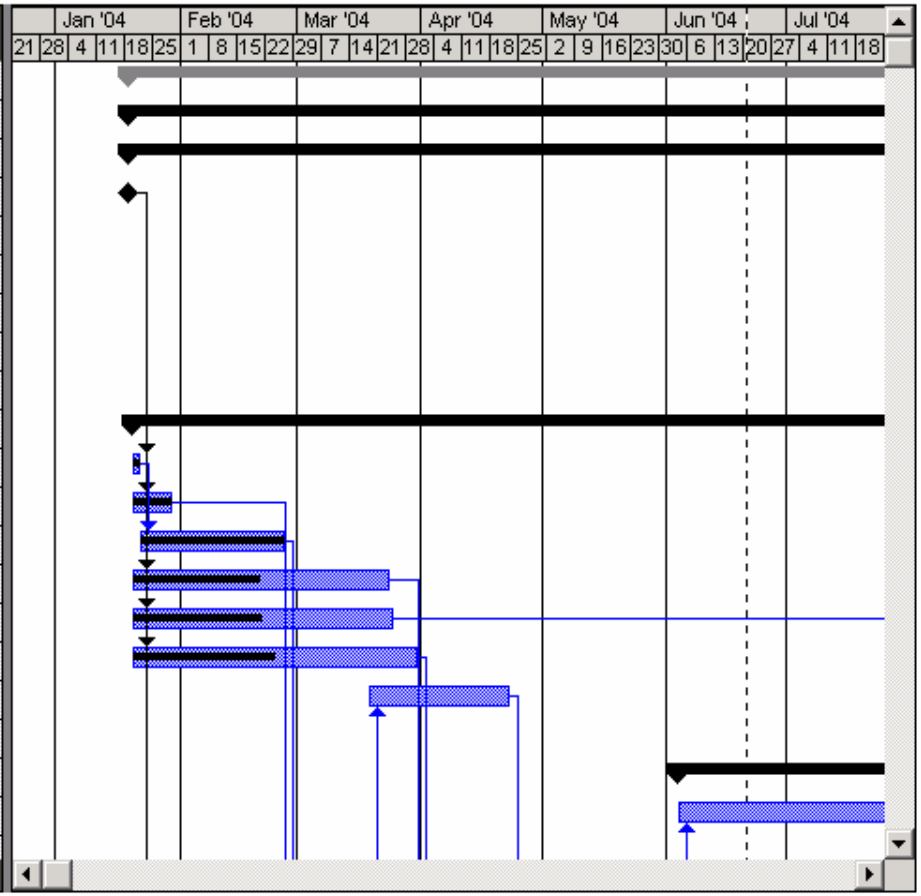
View A Project

Choose a view: Tasks Work

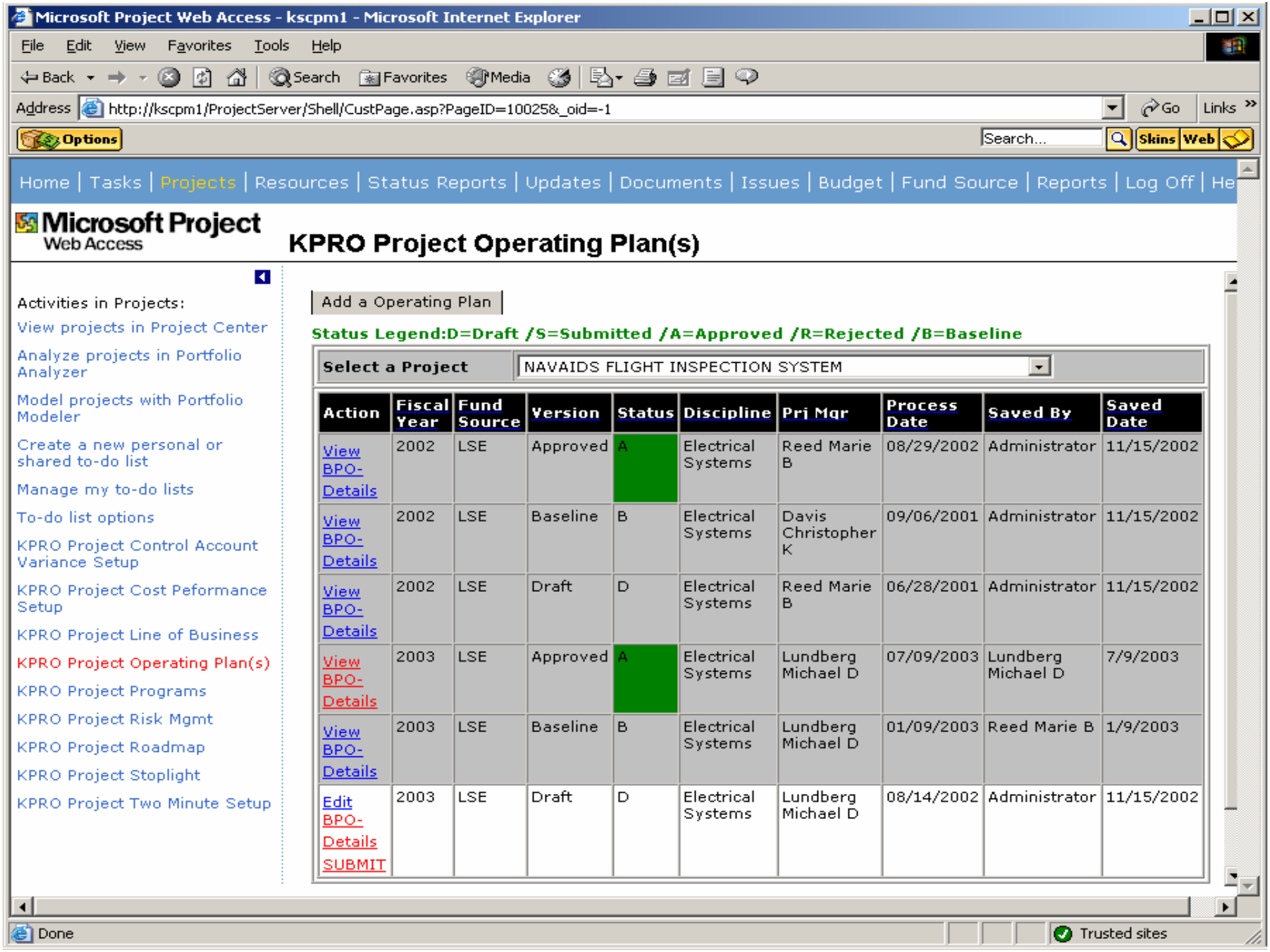
View Options | Filter, Group, Search

Save Link...

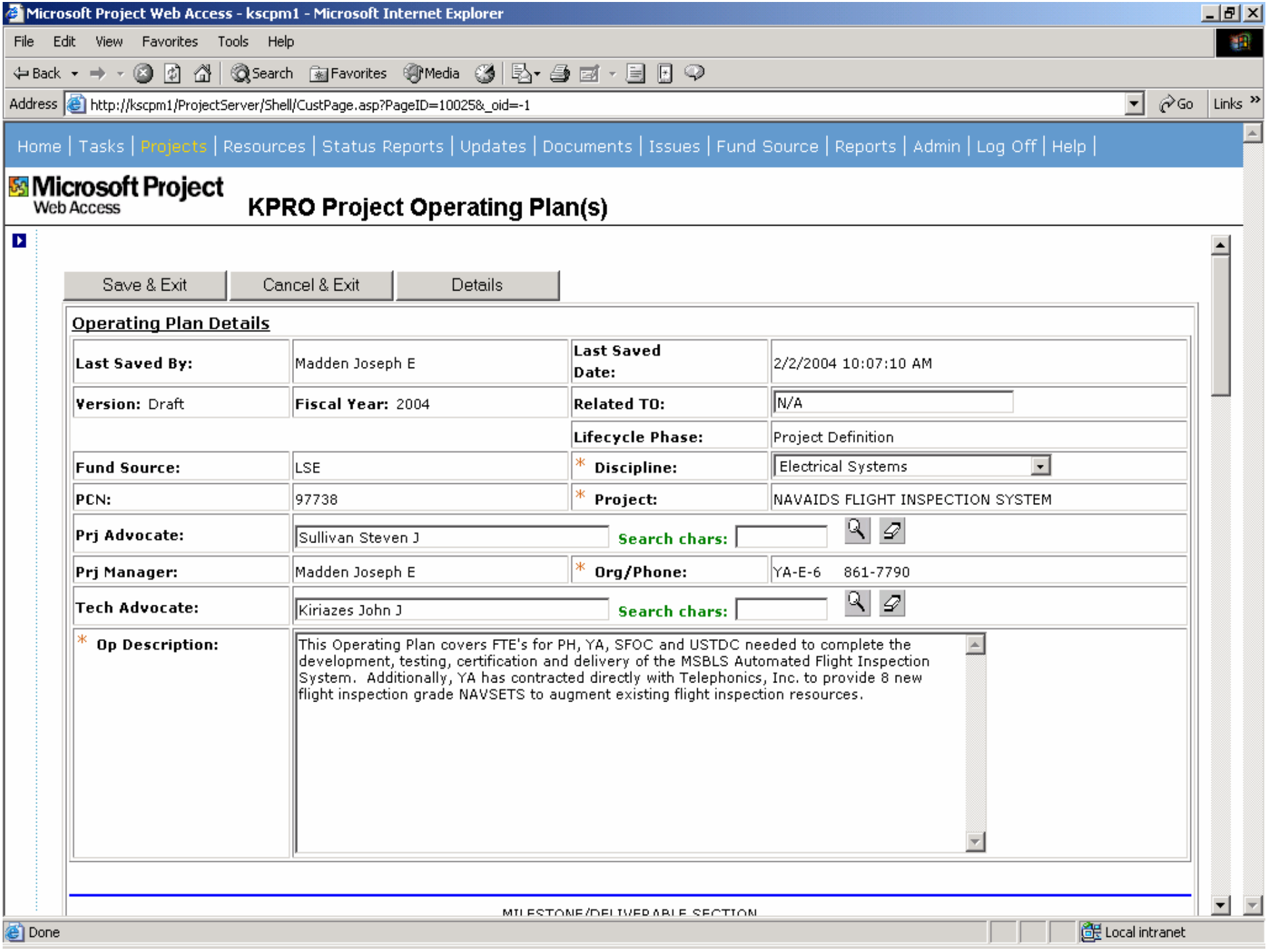
Task Name	Start	Finish
LOX PUMP QUALIFICATION.Published	**1/19/2004 8:00 AM**	**3/17/2005 10:00 AM**
LPQT	**1/19/2004 8:00 AM**	**3/17/2005 10:00 AM**
Milestones	**1/19/2004 8:00 AM**	**3/17/2005 10:00 AM**
Project Start	1/19/2004 8:00 AM	1/19/2004 8:00 AM
H2O Testing Complete	9/20/2004 10:00 AM	9/20/2004 10:00 AM
LN2 Testing Complete	1/3/2005 10:00 AM	1/3/2005 10:00 AM
LOX Testing Complete	2/15/2005 10:00 AM	2/15/2005 10:00 AM
LOX Pumps transferred to SFOC	3/17/2005 10:00 AM	3/17/2005 10:00 AM
Project Complete	3/17/2005 10:00 AM	3/17/2005 10:00 AM
Documents	**1/20/2004 8:00 AM**	**10/5/2004 10:00 AM**
Generate revised shaft sketch	1/20/2004 8:00 AM	1/21/2004 5:00 PM
Revise H2O Procedures	1/20/2004 8:00 AM	1/29/2004 5:00 PM
Acquire Pump#1 Hardware	1/22/2004 8:00 AM	2/26/2004 5:00 PM
Acquire Stationary Carbon Seals	1/20/2004 8:00 AM	3/23/2004 5:00 PM
Generate LN2 & LOX Test Plan	1/20/2004 8:00 AM	3/24/2004 5:00 PM
Acquire Rotating Face	1/20/2004 8:00 AM	3/30/2004 5:00 PM
Fabricate shaft#2 and spares	3/19/2004 8:00 AM	4/22/2004 5:00 PM
Release Drawings to Tech Doc	9/20/2004 10:00 AM	10/5/2004 10:00 AM
Risk Management	**6/4/2004 8:00 AM**	**3/17/2005 10:00 AM**
H2O Testing Known Risks	6/4/2004 8:00 AM	8/12/2004 10:00 AM
H2O Testing Unknown Risks	8/12/2004 10:00 AM	9/20/2004 10:00 AM



Local intranet



Action	Fiscal Year	Fund Source	Version	Status	Discipline	Pri Mgr	Process Date	Saved By	Saved Date
View BPO-Details	2002	LSE	Approved	A	Electrical Systems	Reed Marie B	08/29/2002	Administrator	11/15/2002
View BPO-Details	2002	LSE	Baseline	B	Electrical Systems	Davis Christopher K	09/06/2001	Administrator	11/15/2002
View BPO-Details	2002	LSE	Draft	D	Electrical Systems	Reed Marie B	06/28/2001	Administrator	11/15/2002
View BPO-Details	2003	LSE	Approved	A	Electrical Systems	Lundberg Michael D	07/09/2003	Lundberg Michael D	7/9/2003
View BPO-Details	2003	LSE	Baseline	B	Electrical Systems	Lundberg Michael D	01/09/2003	Reed Marie B	1/9/2003
Edit BPO-Details SUBMIT	2003	LSE	Draft	D	Electrical Systems	Lundberg Michael D	08/14/2002	Administrator	11/15/2002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Address http://kscpm1/ProjectServer/Shell/CustPage.asp?PageID=10025&_oid=-1
Go Links
Home | Tasks | Projects | Resources | Status Reports | Updates | Documents | Issues | Fund Source | Reports | Admin | Log Off | Help |
Microsoft Project Web Access
KPRO Project Operating Plan(s)
Save & Exit
Cancel & Exit
Details
Operating Plan Details
Last Saved By: Madden Joseph E
Last Saved Date: 2/2/2004 10:07:10 AM
Version: Draft
Fiscal Year: 2004
Related TO: N/A
Lifecycle Phase: Project Definition
Fund Source: LSE
* Discipline: Electrical Systems
PCN: 97738
* Project: NAVAIDS FLIGHT INSPECTION SYSTEM
Prj Advocate: Sullivan Steven J
Search chars:
Prj Manager: Madden Joseph E
* Org/Phone: YA-E-6 861-7790
Tech Advocate: Kiriazes John J
Search chars:
* Op Description:
This Operating Plan covers FTE's for PH, YA, SFOC and USTDC needed to complete the development, testing, certification and delivery of the MSBLS Automated Flight Inspection System. Additionally, YA has contracted directly with Telephonics, Inc. to provide 8 new flight inspection grade NAVSETS to augment existing flight inspection resources.
MILESTONE/DELIVERABLE SECTION
Done
Local intranet

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Microsoft Project Web Access

KPRO Project Operating Plan(s)

		8/31/2004	NavSet Unit #7 (2.5%)
		8/31/2004	NavSet Unit #8 (2.5%)
		9/3/2004	KSC GSE Turnover Documentation 21-136
		9/30/2004	MSBLS Bench Test Chassis 1,2,3 Delivered
		6/1/2005	Conduct Certification of TAL Sites

PROJECT TOTALS SECTION

Project Approved TCOST Amount: $ 348 K | **Project Approved OBS Amount: $ 348 K**

Project Totals

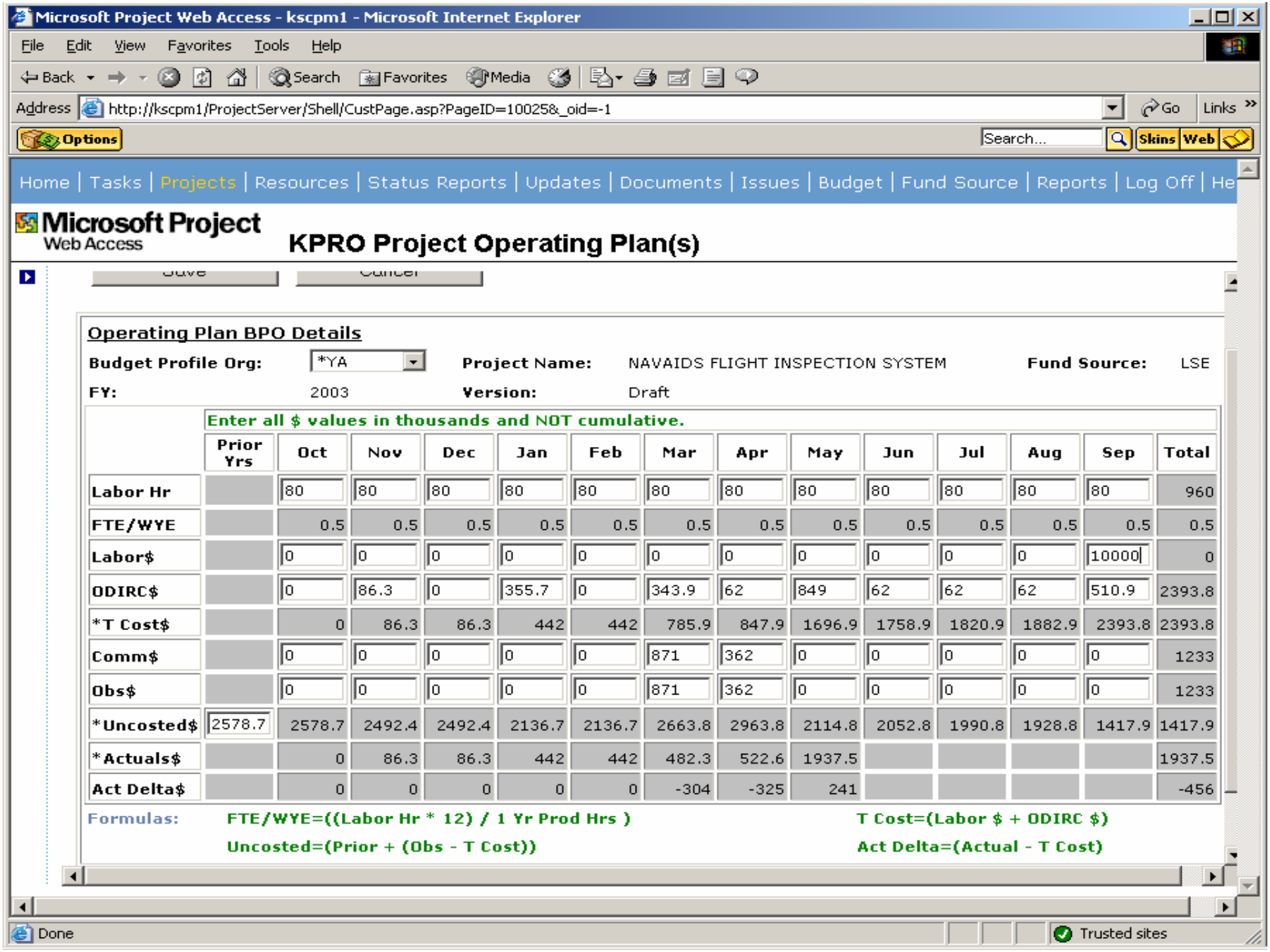
^=Cumulative (All dollar values in $1,000's)

	Prev Yr	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
Labor Hr		403	700	680	650	670	642	677	699	696	707	705	710	7939
FTE		2.3	4	3.9	3.8	3.9	3.7	3.9	4	4	4.1	4.1	4.1	3.8
Labor$		12.5	30.2	27.5	26.9	30.8	27.4	29.5	32	32.8	31.6	31	31.2	343.4
ODIRC$		0.9	1.4	3.2	0.7	884.1	0.7	2.8	146.4	140.9	135.2	120.7	25.6	1462.6
^ T Cost$		13.4	45	75.7	103.3	1018.2	1046.3	1078.6	1257	1430.7	1597.5	1749.2	1806	1806
Comm$		232	0	0	0	0	0	12.9	37.5	16.3	12.8	10.5	34.2	356.2
Obs$		232	0	0	0	0	0	12.9	37.5	16.3	12.8	10.5	34.2	356.2
^ Uncosted$	1449.8	1668.4	1636.8	1606.1	1578.5	663.6	635.5	616.1	475.2	317.8	163.8	22.6	0	0
^ Actuals$		30.3	60.4	77.9	980	1010.6	1073.2	1117.6	1155					1155
Act Delta$		17	15	2	877	-8	27	39	-102					-651

Formulas: FTE=((Labor Hr * 12) / 1 Yr Prod Hrs) T Cost=(Labor $ + ODIRC $)

Uncosted=(Prior + (Obs - T Cost)) Act Delta=(Actual - T Cost)

Done Local intranet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Home | Tasks | Projects | Resources | Status Reports | Updates | Documents | Issues | Budget | Fund Source | Reports | Log Off | He
Microsoft Project Web Access
KPRO Project Operating Plan(s)
Operating Plan BPO Details
Budget Profile Org: *YA
Project Name: NAVAIDS FLIGHT INSPECTION SYSTEM
Fund Source: LSE
FY: 2003
Version: Draft
Enter all $ values in thousands and NOT cumulative.
Prior Yrs | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Total
Labor Hr | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 960
FTE/WYE | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5
Labor$ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10000 | 0
ODIRC$ | 0 | 86.3 | 0 | 355.7 | 0 | 343.9 | 62 | 849 | 62 | 62 | 62 | 510.9 | 2393.8
*T Cost$ | 0 | 86.3 | 86.3 | 442 | 442 | 785.9 | 847.9 | 1696.9 | 1758.9 | 1820.9 | 1882.9 | 2393.8 | 2393.8
Comm$ | 0 | 0 | 0 | 0 | 0 | 871 | 362 | 0 | 0 | 0 | 0 | 0 | 1233
Obs$ | 0 | 0 | 0 | 0 | 0 | 871 | 362 | 0 | 0 | 0 | 0 | 0 | 1233
*Uncosted$ | 2578.7 | 2578.7 | 2492.4 | 2492.4 | 2136.7 | 2136.7 | 2663.8 | 2963.8 | 2114.8 | 2052.8 | 1990.8 | 1928.8 | 1417.9 | 1417.9
*Actuals$ | 0 | 86.3 | 86.3 | 442 | 442 | 482.3 | 522.6 | 1937.5 | | | | | 1937.5
Act Delta$ | 0 | 0 | 0 | 0 | 0 | -304 | -325 | 241 | | | | | -456
Formulas: FTE/WYE=((Labor Hr * 12) / 1 Yr Prod Hrs)
T Cost=(Labor $ + ODIRC $)
Uncosted=(Prior + (Obs - T Cost))
Act Delta=(Actual - T Cost)
Done
Trusted sites

OPERATING PLAN

"K's rounded"

Fund Source = LSE; Fiscal Year = 2004; Discipline = (All); Project = CRAWLER TRANSPORTER UPGRADES; Version = Approved;

Approved TCost $K:	1836	Related Task Order:	N/A	Process Date:	06/07/2004
Fund Source:	LSE	Lifecycle Phase:	Operations/Close-out	Fiscal Year:	2004
Discipline:	Facilities and Structural Sys	Version:	Approved #4		

PCN: 97566

Project: CRAWLER TRANSPORTER UPGRADES

	Name	Organization	Phone
Proj. Advoc.:	Hamilton Mark S	PH-J-2	861-3252
Proj. Mgr.:	Hamilton Mark S	PH-J-2	861-3252
Tech. Advoc.:	None	-	-

OP Description: Design and implement several modifications to eliminate end-of-service-life and obsolescense issues on the Crawler Transporters, which are approaching 40 years of service at KSC. Examples of tasks to be implemented under this project include (but are not limited to) the following: perform comprehensive non-destructive examination of critical load path structure, design and install new motor control centers, design and install upgraded fire protection and HVAC systems, and rebuild existing jacking cylinders and hydraulic pumps. Procure and install 16 new tread belts and two spare tread belts.

Start Date	Milestone
1/21/2005	Refurbish 3rd Pair (includes new bearings)
10/17/2002	Refurbish 1st Pair
12/11/2001	JEL Cylinder Bearing Re-Design
2/9/2004	Procurement & Suppliers Set-up
4/1/2005	Servo Valve Path Finder, Steering Skid, Ventilation & Control Room
5/14/2004	Refurbish White Exhaust Manifolds
5/20/2005	Refurbish 4th Pair
6/23/2004	Refurbish White Exhaust Manifolds
6/28/2004	Hydraulic Silencer Certification Testing
7/19/2004	Bearing Procurements (Not currently Funded)
7/30/2004	Suppliers Fabricate 1044 New Shoes
9/17/2004	Refurbish 2nd Pair
9/20/2003	Integrated MCC Upgrade
9/29/2003	Develop New Design Drawings & Specs
9/29/2004	Procure Hydraulic Silencers

Start Date	Deliverable
9/20/2003	Integrated MCC Upgrade
2/9/2004	Procurement & Suppliers Set-up
5/14/2004	Refurbish White Exhaust Manifolds
6/23/2004	Refurbish White Exhaust Manifolds
7/30/2004	Suppliers Fabricate 1044 New Shoes
9/29/2004	Procure Hydraulic Silencers

OPERATING PLAN

"K$'s rounded"

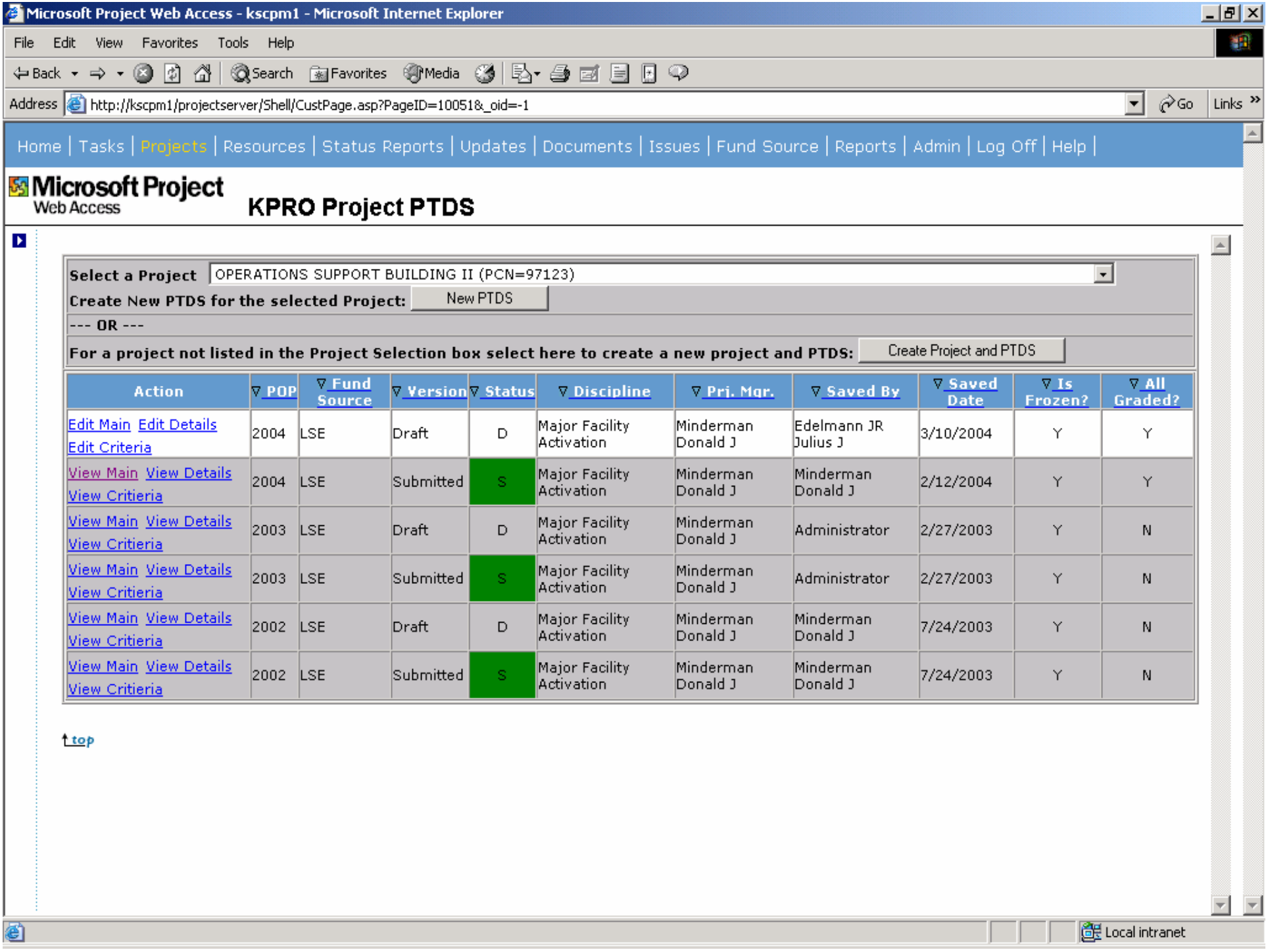
Fund Source = LSE; Fiscal Year = 2004; Discipline = (All); Project = CRAWLER TRANSPORTER UPGRADES; Version = Approved;

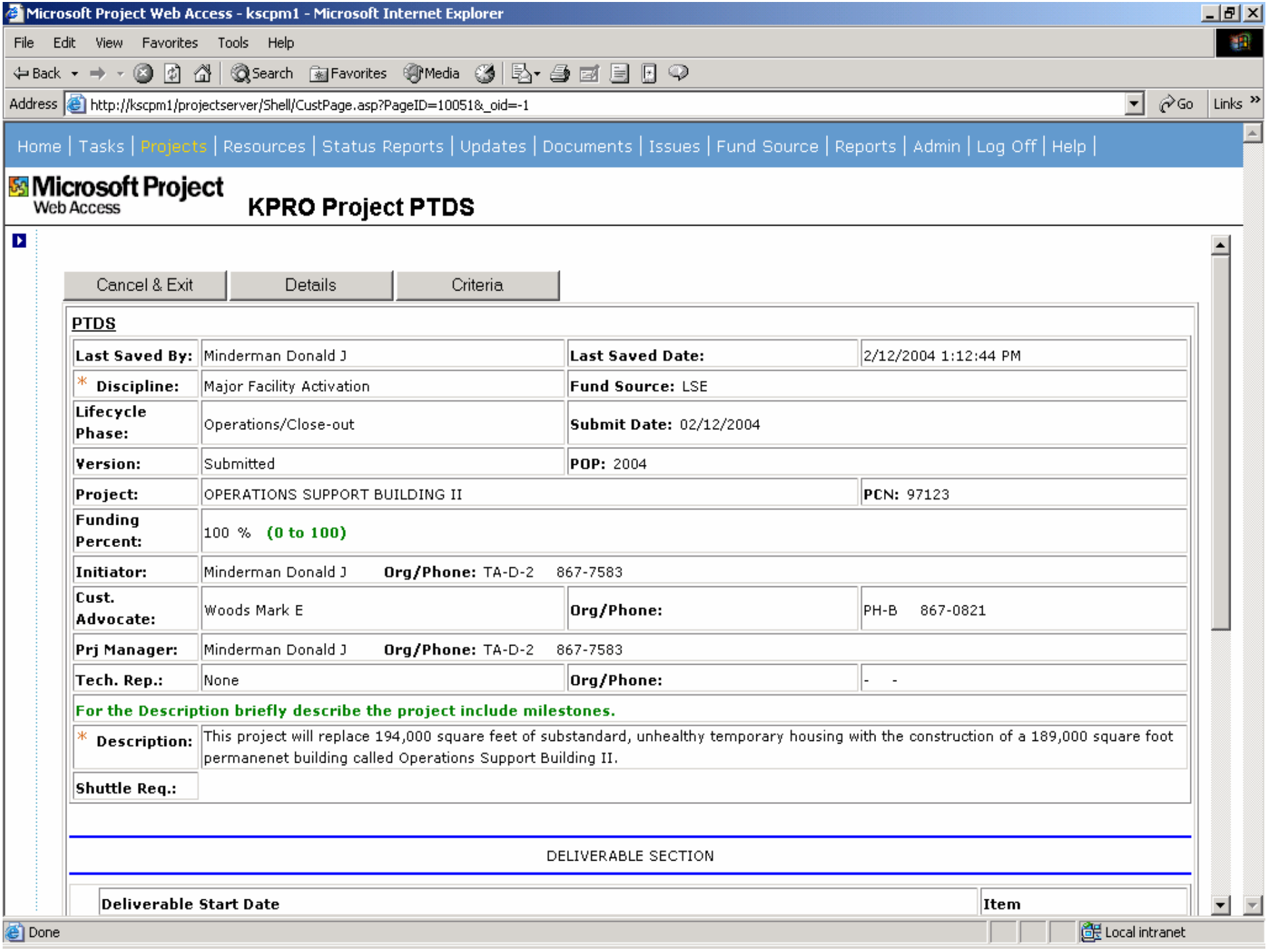
Proj Total

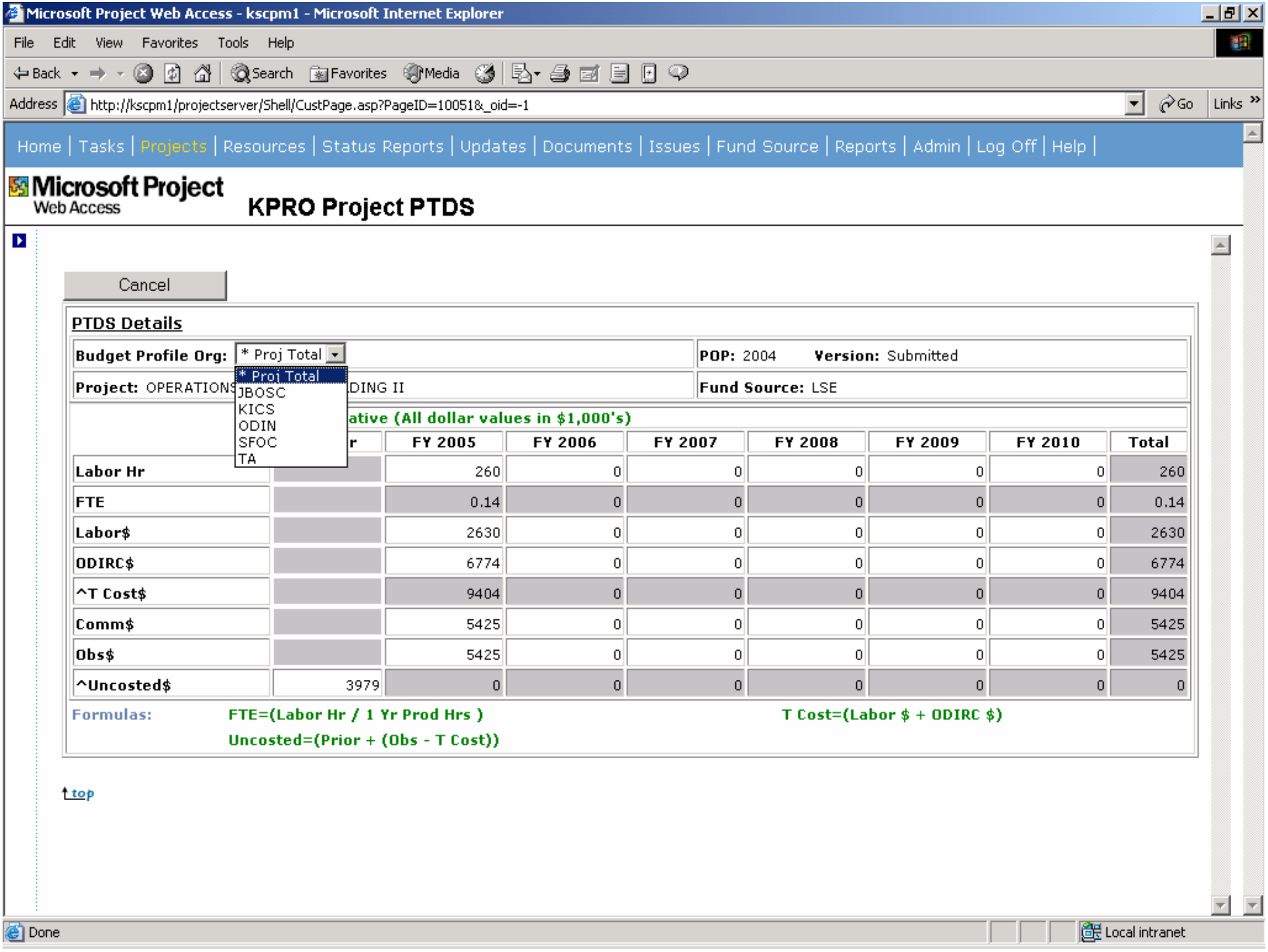
	Prev Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
Labor Hr		914	182	778	1,509	484	197	879	276	2,958	3,808	3,132	3,169	18,286
FTE		5.80	1.20	5.00	9.60	3.10	1.30	5.60	1.80	18.90	24.30	20.00	20.20	9.70
Labor$		45	18	25	67	21	14	48	18	125	181	139	138	837
ODIRC$		89	95	6	16	11	3	6	30	12	1,355	2,116	2,336	6,074
T Cost$		134	247	277	360	392	408	462	509	646	2,182	4,437	6,911	6,911
Comm$		1,888	0	0	0	0	496	0	0	5,019	0	0	0	7,403
Obs$		1,888	0	0	0	0	496	0	0	5,019	0	0	0	7,403
Uncosted$	361	2,115	2,002	1,972	1,889	1,857	2,337	2,283	2,235	7,117	5,581	3,326	852	852
Actuals$		134	247	277	359	392	408	462	517					517
Act Delta$		0	0	0	0	0	0	0	8					-6,394

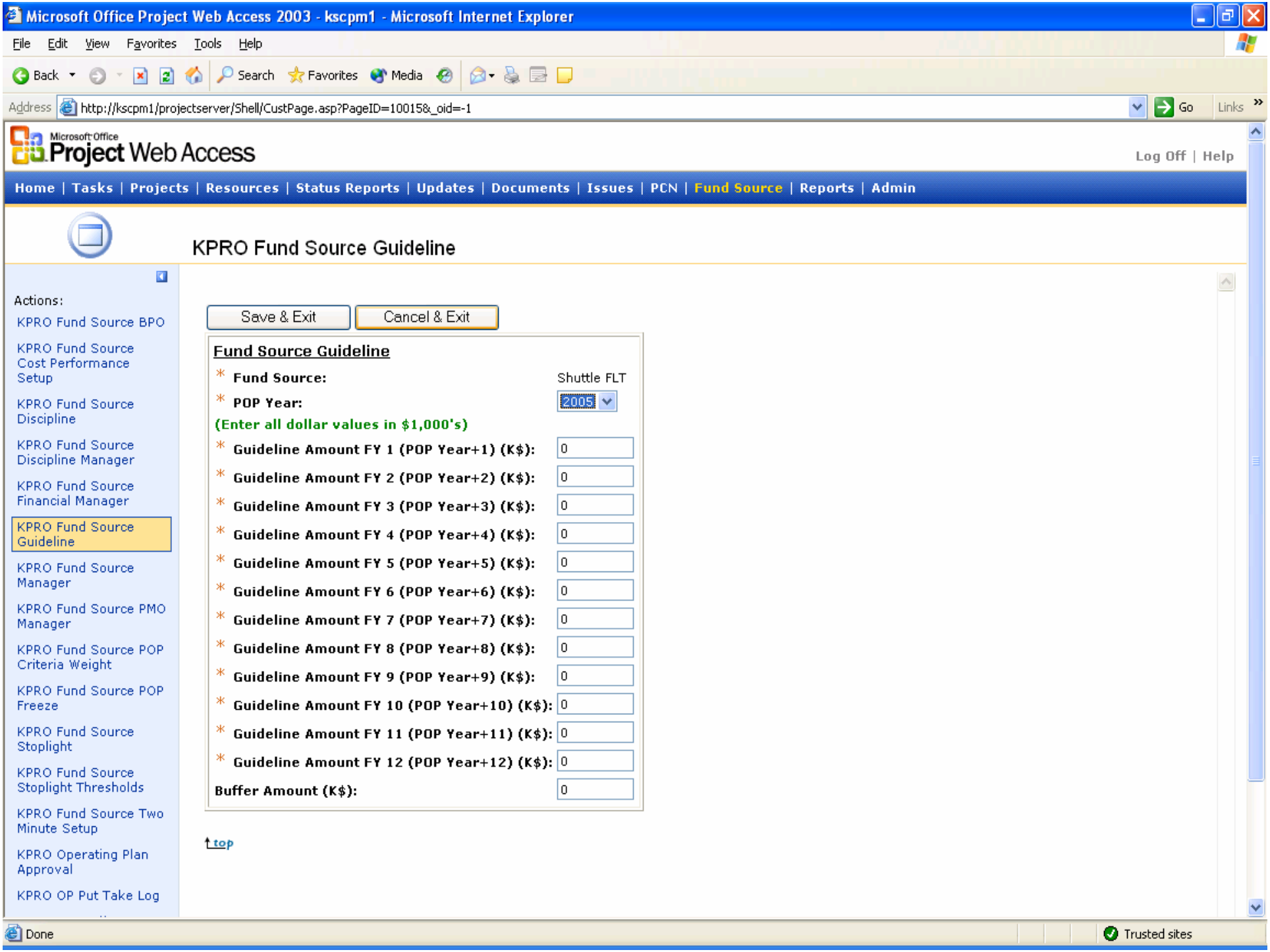
SFOC

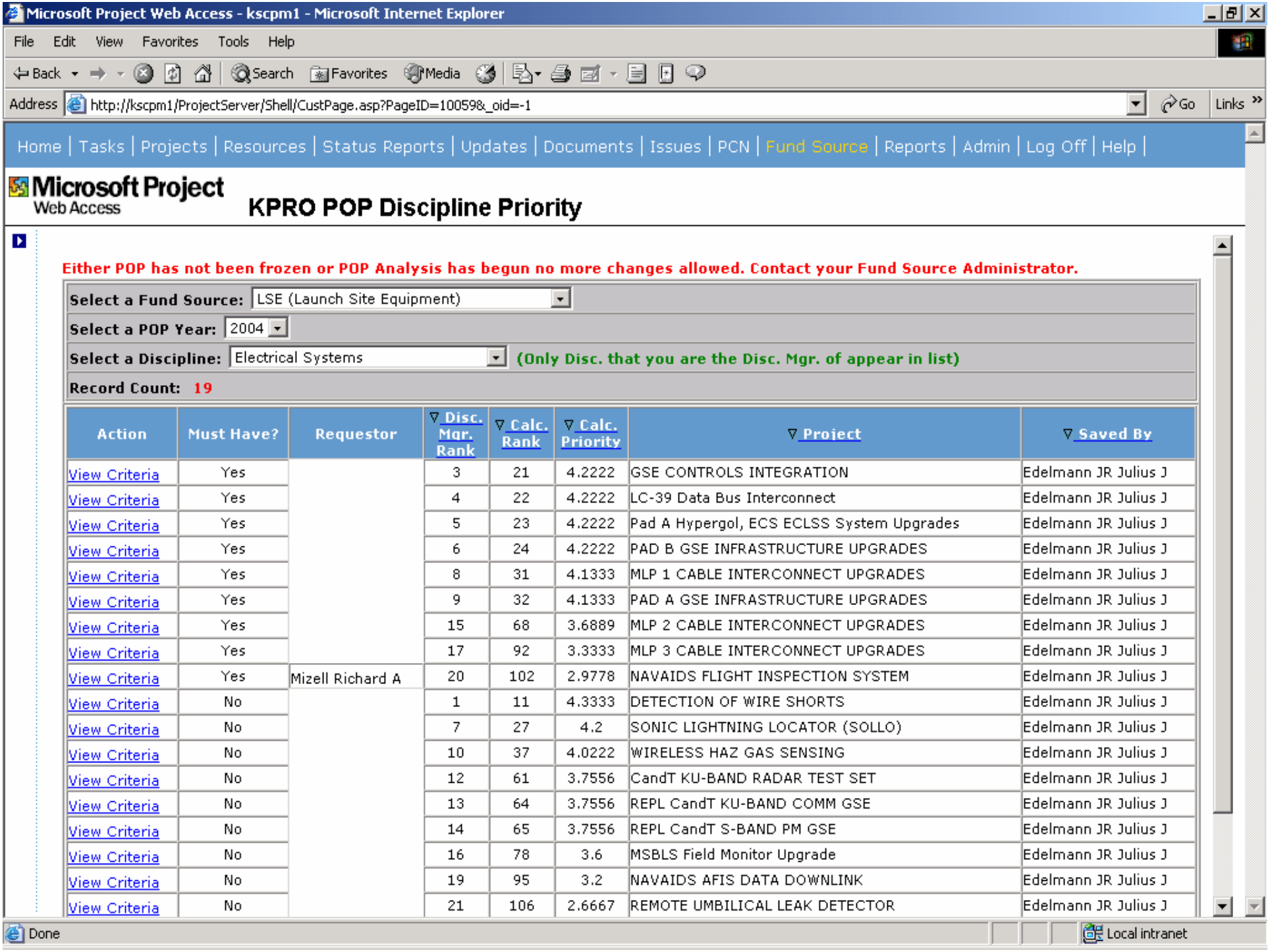
	Prev Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
Labor Hr		914	182	778	1,509	484	197	879	276	2,958	3,808	3,132	3,169	18,286
FTE (Hrs:1880)		5.80	1.20	5.00	9.60	3.10	1.30	5.60	1.80	18.90	24.30	20.00	20.20	9.70
Labor$		45	18	25	67	21	14	48	18	125	181	139	138	837
ODIRC$		89	95	6	16	11	3	6	30	12	1,355	2,116	2,336	6,074
T Cost$		134	247	277	360	392	408	462	509	646	2,182	4,437	6,911	6,911
Comm$		1,888	0	0	0	0	496	0	0	5,019	0	0	0	7,403
Obs$		1,888	0	0	0	0	496	0	0	5,019	0	0	0	7,403
Uncosted$	361	2,115	2,002	1,972	1,889	1,857	2,337	2,283	2,235	7,117	5,581	3,326	852	852
Actuals$		134	247	277	359	392	408	462	517					517
Act Delta$		0	0	0	0	0	0	0	8					-6,394

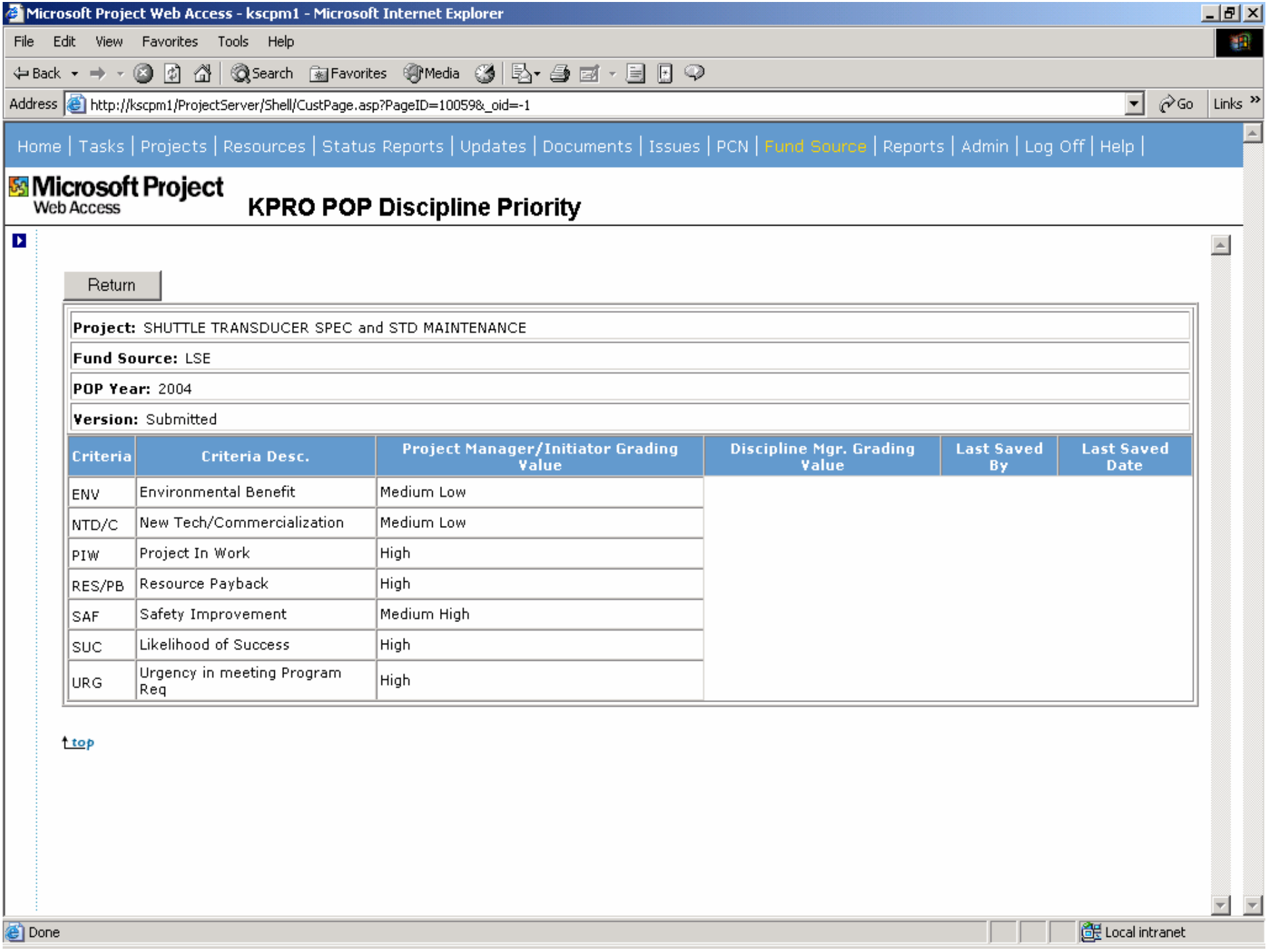

Microsoft Project Web Access - kscpm1 - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites Media
Address http://kscpm1/projectserver/Shell/CustPage.asp?PageID=10051&_oid=-1
Go Links
Home | Tasks | Projects | Resources | Status Reports | Updates | Documents | Issues | Fund Source | Reports | Admin | Log Off | Help |
Microsoft Project Web Access
KPRO Project PTDS
Select a Project
OPERATIONS SUPPORT BUILDING II (PCN=97123)
Create New PTDS for the selected Project:
New PTDS
--- OR ---
For a project not listed in the Project Selection box select here to create a new project and PTDS:
Create Project and PTDS
Action | POP | Fund Source | Version | Status | Discipline | Pri. Mgr. | Saved By | Saved Date | Is Frozen? | All Graded?
Edit Main Edit Details Edit Criteria | 2004 | LSE | Draft | D | Major Facility Activation | Minderman Donald J | Edelmann JR Julius J | 3/10/2004 | Y | Y
View Main View Details View Critieria | 2004 | LSE | Submitted | S | Major Facility Activation | Minderman Donald J | Minderman Donald J | 2/12/2004 | Y | Y
View Main View Details View Critieria | 2003 | LSE | Draft | D | Major Facility Activation | Minderman Donald J | Administrator | 2/27/2003 | Y | N
View Main View Details View Critieria | 2003 | LSE | Submitted | S | Major Facility Activation | Minderman Donald J | Administrator | 2/27/2003 | Y | N
View Main View Details View Critieria | 2002 | LSE | Draft | D | Major Facility Activation | Minderman Donald J | Minderman Donald J | 7/24/2003 | Y | N
View Main View Details View Critieria | 2002 | LSE | Submitted | S | Major Facility Activation | Minderman Donald J | Minderman Donald J | 7/24/2003 | Y | N
top
Local intranet

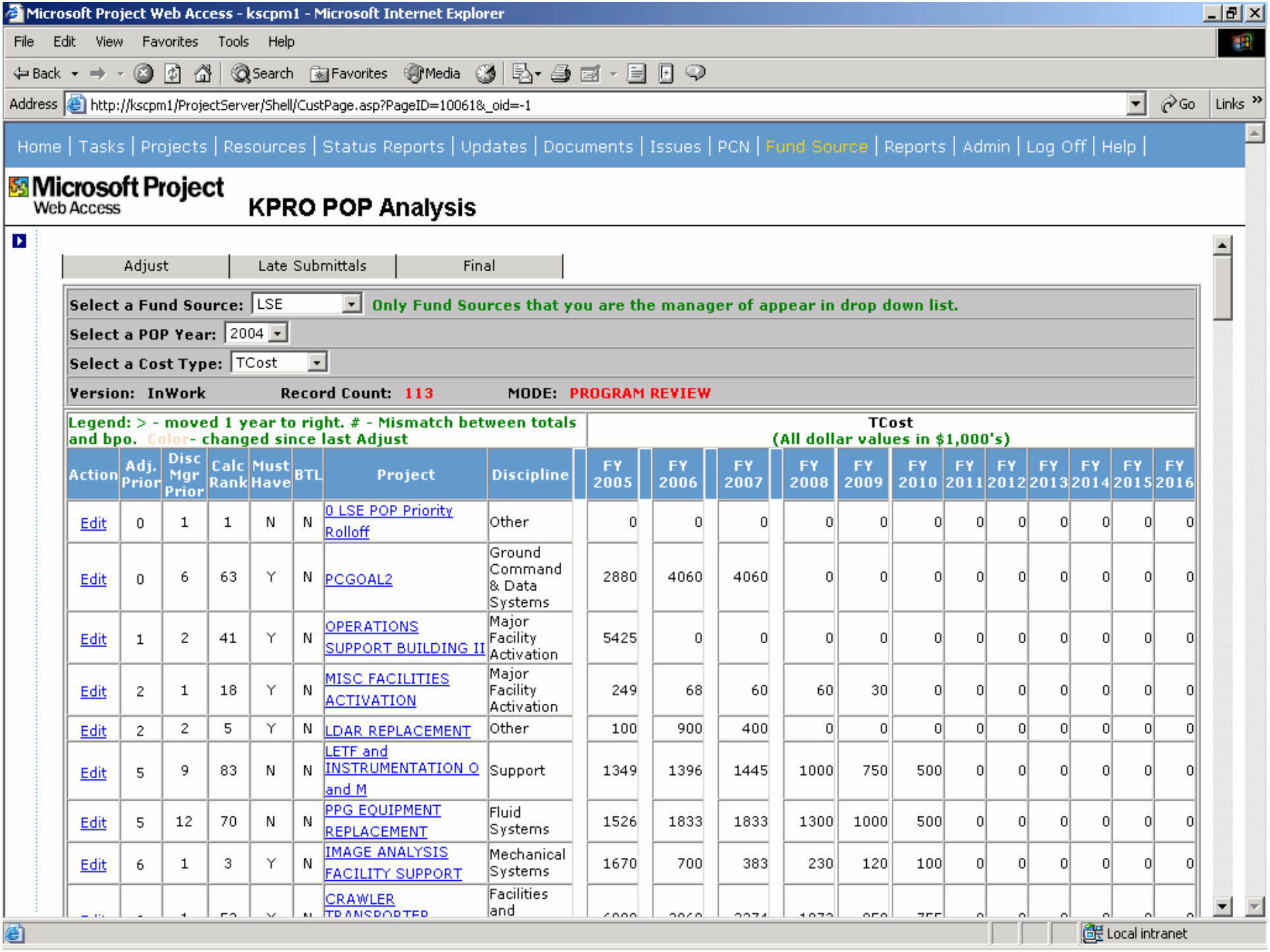

Microsoft Project Web Access - kscpm1 - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites Media
Address http://kscpm1/projectserver/Shell/CustPage.asp?PageID=10051&_oid=-1
Go Links
Home | Tasks | Projects | Resources | Status Reports | Updates | Documents | Issues | Fund Source | Reports | Admin | Log Off | Help |
Microsoft Project Web Access
KPRO Project PTDS
Cancel & Exit
Details
Criteria
PTDS
Last Saved By: Minderman Donald J
Last Saved Date: 2/12/2004 1:12:44 PM
* Discipline: Major Facility Activation
Fund Source: LSE
Lifecycle Phase: Operations/Close-out
Submit Date: 02/12/2004
Version: Submitted
POP: 2004
Project: OPERATIONS SUPPORT BUILDING II
PCN: 97123
Funding Percent: 100 % (0 to 100)
Initiator: Minderman Donald J Org/Phone: TA-D-2 867-7583
Cust. Advocate: Woods Mark E
Org/Phone: PH-B 867-0821
Prj Manager: Minderman Donald J Org/Phone: TA-D-2 867-7583
Tech. Rep.: None
Org/Phone: - -
For the Description briefly describe the project include milestones.
* Description: This project will replace 194,000 square feet of substandard, unhealthy temporary housing with the construction of a 189,000 square foot permanenet building called Operations Support Building II.
Shuttle Req.:
DELIVERABLE SECTION
Deliverable Start Date
Item
Done
Local intranet

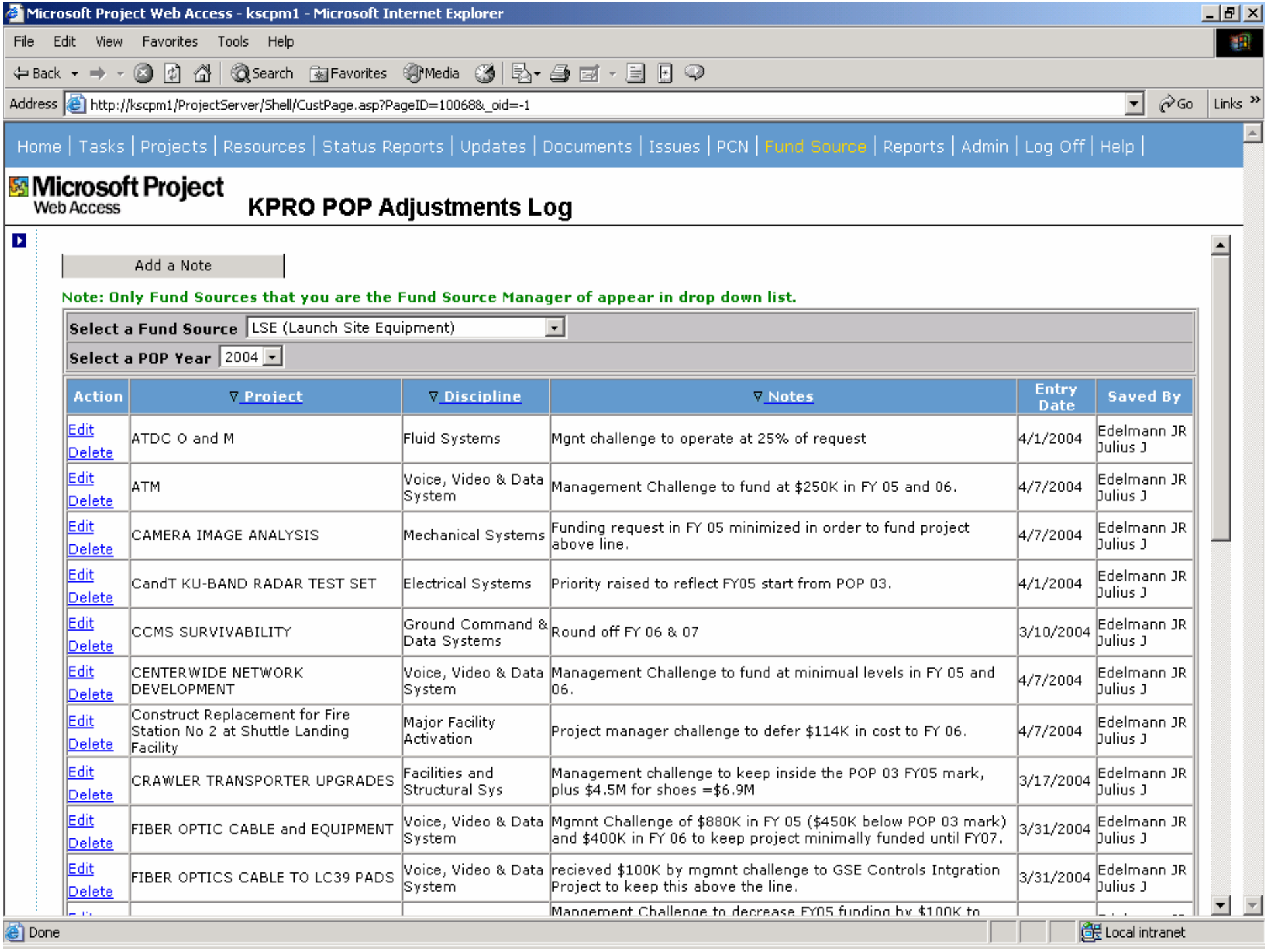

Microsoft Project Web Access - kscpm1 - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites Media
Address http://kscpm1/projectserver/Shell/CustPage.asp?PageID=10051&_oid=-1
Go Links
Home | Tasks | Projects | Resources | Status Reports | Updates | Documents | Issues | Fund Source | Reports | Admin | Log Off | Help |
Microsoft Project Web Access
KPRO Project PTDS
Cancel
PTDS Details
Budget Profile Org: * Proj Total
* Proj Total
JBOSC
KICS
ODIN
SFOC
TA
POP: 2004 Version: Submitted
Project: OPERATIONS DING II
Fund Source: LSE
ative (All dollar values in $1,000's)
r FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 FY 2010 Total
Labor Hr 260 0 0 0 0 0 260
FTE 0.14 0 0 0 0 0 0.14
Labor$ 2630 0 0 0 0 0 2630
ODIRC$ 6774 0 0 0 0 0 6774
^T Cost$ 9404 0 0 0 0 0 9404
Comm$ 5425 0 0 0 0 0 5425
Obs$ 5425 0 0 0 0 0 5425
^Uncosted$ 3979 0 0 0 0 0 0
Formulas: FTE=(Labor Hr / 1 Yr Prod Hrs)
T Cost=(Labor $ + ODIRC $)
Uncosted=(Prior + (Obs - T Cost))
top
Done
Local intranet


Microsoft Office Project Web Access 2003 - kscpm1 - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites Media
Address http://kscpm1/projectserver/Shell/CustPage.asp?PageID=10015&_oid=-1
Go Links
Microsoft Office Project Web Access
Log Off | Help
Home | Tasks | Projects | Resources | Status Reports | Updates | Documents | Issues | PCN | Fund Source | Reports | Admin
KPRO Fund Source Guideline
Actions:
KPRO Fund Source BPO
KPRO Fund Source Cost Performance Setup
KPRO Fund Source Discipline
KPRO Fund Source Discipline Manager
KPRO Fund Source Financial Manager
KPRO Fund Source Guideline
KPRO Fund Source Manager
KPRO Fund Source PMO Manager
KPRO Fund Source POP Criteria Weight
KPRO Fund Source POP Freeze
KPRO Fund Source Stoplight
KPRO Fund Source Stoplight Thresholds
KPRO Fund Source Two Minute Setup
KPRO Operating Plan Approval
KPRO OP Put Take Log
Save & Exit
Cancel & Exit
Fund Source Guideline
* Fund Source: Shuttle FLT
* POP Year: 2005
(Enter all dollar values in $1,000's)
* Guideline Amount FY 1 (POP Year+1) (K$): 0
* Guideline Amount FY 2 (POP Year+2) (K$): 0
* Guideline Amount FY 3 (POP Year+3) (K$): 0
* Guideline Amount FY 4 (POP Year+4) (K$): 0
* Guideline Amount FY 5 (POP Year+5) (K$): 0
* Guideline Amount FY 6 (POP Year+6) (K$): 0
* Guideline Amount FY 7 (POP Year+7) (K$): 0
* Guideline Amount FY 8 (POP Year+8) (K$): 0
* Guideline Amount FY 9 (POP Year+9) (K$): 0
* Guideline Amount FY 10 (POP Year+10) (K$): 0
* Guideline Amount FY 11 (POP Year+11) (K$): 0
* Guideline Amount FY 12 (POP Year+12) (K$): 0
Buffer Amount (K$): 0
top
Done
Trusted sites


Microsoft Project Web Access - kscpm1 - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites Media
Address http://kscpm1/ProjectServer/Shell/CustPage.asp?PageID=10059&_oid=-1
Go Links
Home | Tasks | Projects | Resources | Status Reports | Updates | Documents | Issues | PCN | Fund Source | Reports | Admin | Log Off | Help |
Microsoft Project Web Access
KPRO POP Discipline Priority
Either POP has not been frozen or POP Analysis has begun no more changes allowed. Contact your Fund Source Administrator.
Select a Fund Source: LSE (Launch Site Equipment)
Select a POP Year: 2004
Select a Discipline: Electrical Systems
(Only Disc. that you are the Disc. Mgr. of appear in list)
Record Count: 19
Action | Must Have? | Requestor | Disc. Mgr. Rank | Calc. Rank | Calc. Priority | Project | Saved By
View Criteria | Yes | | 3 | 21 | 4.2222 | GSE CONTROLS INTEGRATION | Edelmann JR Julius J
View Criteria | Yes | | 4 | 22 | 4.2222 | LC-39 Data Bus Interconnect | Edelmann JR Julius J
View Criteria | Yes | | 5 | 23 | 4.2222 | Pad A Hypergol, ECS ECLSS System Upgrades | Edelmann JR Julius J
View Criteria | Yes | | 6 | 24 | 4.2222 | PAD B GSE INFRASTRUCTURE UPGRADES | Edelmann JR Julius J
View Criteria | Yes | | 8 | 31 | 4.1333 | MLP 1 CABLE INTERCONNECT UPGRADES | Edelmann JR Julius J
View Criteria | Yes | | 9 | 32 | 4.1333 | PAD A GSE INFRASTRUCTURE UPGRADES | Edelmann JR Julius J
View Criteria | Yes | | 15 | 68 | 3.6889 | MLP 2 CABLE INTERCONNECT UPGRADES | Edelmann JR Julius J
View Criteria | Yes | | 17 | 92 | 3.3333 | MLP 3 CABLE INTERCONNECT UPGRADES | Edelmann JR Julius J
View Criteria | Yes | Mizell Richard A | 20 | 102 | 2.9778 | NAVAIDS FLIGHT INSPECTION SYSTEM | Edelmann JR Julius J
View Criteria | No | | 1 | 11 | 4.3333 | DETECTION OF WIRE SHORTS | Edelmann JR Julius J
View Criteria | No | | 7 | 27 | 4.2 | SONIC LIGHTNING LOCATOR (SOLLO) | Edelmann JR Julius J
View Criteria | No | | 10 | 37 | 4.0222 | WIRELESS HAZ GAS SENSING | Edelmann JR Julius J
View Criteria | No | | 12 | 61 | 3.7556 | CandT KU-BAND RADAR TEST SET | Edelmann JR Julius J
View Criteria | No | | 13 | 64 | 3.7556 | REPL CandT KU-BAND COMM GSE | Edelmann JR Julius J
View Criteria | No | | 14 | 65 | 3.7556 | REPL CandT S-BAND PM GSE | Edelmann JR Julius J
View Criteria | No | | 16 | 78 | 3.6 | MSBLS Field Monitor Upgrade | Edelmann JR Julius J
View Criteria | No | | 19 | 95 | 3.2 | NAVAIDS AFIS DATA DOWNLINK | Edelmann JR Julius J
View Criteria | No | | 21 | 106 | 2.6667 | REMOTE UMBILICAL LEAK DETECTOR | Edelmann JR Julius J
Done
Local intranet


Microsoft Project Web Access - kscpm1 - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites Media
Address http://kscpm1/ProjectServer/Shell/CustPage.asp?PageID=10059&_oid=-1
Go Links
Home | Tasks | Projects | Resources | Status Reports | Updates | Documents | Issues | PCN | Fund Source | Reports | Admin | Log Off | Help |
Microsoft Project Web Access
KPRO POP Discipline Priority
Return
Project: SHUTTLE TRANSDUCER SPEC and STD MAINTENANCE
Fund Source: LSE
POP Year: 2004
Version: Submitted
Criteria | Criteria Desc. | Project Manager/Initiator Grading Value | Discipline Mgr. Grading Value | Last Saved By | Last Saved Date
ENV | Environmental Benefit | Medium Low
NTD/C | New Tech/Commercialization | Medium Low
PIW | Project In Work | High
RES/PB | Resource Payback | High
SAF | Safety Improvement | Medium High
SUC | Likelihood of Success | High
URG | Urgency in meeting Program Req | High
top
Done
Local intranet


Microsoft Project Web Access - kscpm1 - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites Media
Address http://kscpm1/ProjectServer/Shell/CustPage.asp?PageID=10061&_oid=-1
Go Links
Home | Tasks | Projects | Resources | Status Reports | Updates | Documents | Issues | PCN | Fund Source | Reports | Admin | Log Off | Help |
Microsoft Project Web Access
KPRO POP Analysis
Adjust
Late Submittals
Final
Select a Fund Source: LSE
Only Fund Sources that you are the manager of appear in drop down list.
Select a POP Year: 2004
Select a Cost Type: TCost
Version: InWork
Record Count: 113
MODE: PROGRAM REVIEW
Legend: > - moved 1 year to right. # - Mismatch between totals and bpo. Color- changed since last Adjust
TCost
(All dollar values in $1,000's)
Action
Adj. Prior
Disc Mgr Prior
Calc Rank
Must Have
BTL
Project
Discipline
FY 2005
FY 2006
FY 2007
FY 2008
FY 2009
FY 2010
FY 2011
FY 2012
FY 2013
FY 2014
FY 2015
FY 2016
Edit 0 1 1 N N 0 LSE POP Priority Rolloff Other 0 0 0 0 0 0 0 0 0 0 0 0
Edit 0 6 63 Y N PCGOAL2 Ground Command & Data Systems 2880 4060 4060 0 0 0 0 0 0 0 0 0
Edit 1 2 41 Y N OPERATIONS SUPPORT BUILDING II Major Facility Activation 5425 0 0 0 0 0 0 0 0 0 0 0
Edit 2 1 18 Y N MISC FACILITIES ACTIVATION Major Facility Activation 249 68 60 60 30 0 0 0 0 0 0 0
Edit 2 2 5 Y N LDAR REPLACEMENT Other 100 900 400 0 0 0 0 0 0 0 0 0
Edit 5 9 83 N N LETF and INSTRUMENTATION O and M Support 1349 1396 1445 1000 750 500 0 0 0 0 0 0
Edit 5 12 70 N N PPG EQUIPMENT REPLACEMENT Fluid Systems 1526 1833 1833 1300 1000 500 0 0 0 0 0 0
Edit 6 1 3 Y N IMAGE ANALYSIS FACILITY SUPPORT Mechanical Systems 1670 700 383 230 120 100 0 0 0 0 0 0
CRAWLER TRANSPORTER Facilities and
Local intranet


Microsoft Project Web Access - kscpm1 - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites Media
Address http://kscpm1/ProjectServer/Shell/CustPage.asp?PageID=10068&_oid=-1
Go Links
Home | Tasks | Projects | Resources | Status Reports | Updates | Documents | Issues | PCN | Fund Source | Reports | Admin | Log Off | Help |
Microsoft Project Web Access
KPRO POP Adjustments Log
Add a Note
Note: Only Fund Sources that you are the Fund Source Manager of appear in drop down list.
Select a Fund Source LSE (Launch Site Equipment)
Select a POP Year 2004
Action | Project | Discipline | Notes | Entry Date | Saved By
Edit Delete | ATDC O and M | Fluid Systems | Mgnt challenge to operate at 25% of request | 4/1/2004 | Edelmann JR Julius J
Edit Delete | ATM | Voice, Video & Data System | Management Challenge to fund at $250K in FY 05 and 06. | 4/7/2004 | Edelmann JR Julius J
Edit Delete | CAMERA IMAGE ANALYSIS | Mechanical Systems | Funding request in FY 05 minimized in order to fund project above line. | 4/7/2004 | Edelmann JR Julius J
Edit Delete | CandT KU-BAND RADAR TEST SET | Electrical Systems | Priority raised to reflect FY05 start from POP 03. | 4/1/2004 | Edelmann JR Julius J
Edit Delete | CCMS SURVIVABILITY | Ground Command & Data Systems | Round off FY 06 & 07 | 3/10/2004 | Edelmann JR Julius J
Edit Delete | CENTERWIDE NETWORK DEVELOPMENT | Voice, Video & Data System | Management Challenge to fund at minimual levels in FY 05 and 06. | 4/7/2004 | Edelmann JR Julius J
Edit Delete | Construct Replacement for Fire Station No 2 at Shuttle Landing Facility | Major Facility Activation | Project manager challenge to defer $114K in cost to FY 06. | 4/7/2004 | Edelmann JR Julius J
Edit Delete | CRAWLER TRANSPORTER UPGRADES | Facilities and Structural Sys | Management challenge to keep inside the POP 03 FY05 mark, plus $4.5M for shoes =$6.9M | 3/17/2004 | Edelmann JR Julius J
Edit Delete | FIBER OPTIC CABLE and EQUIPMENT | Voice, Video & Data System | Mgmnt Challenge of $880K in FY 05 ($450K below POP 03 mark) and $400K in FY 06 to keep project minimally funded until FY07. | 3/31/2004 | Edelmann JR Julius J
Edit Delete | FIBER OPTICS CABLE TO LC39 PADS | Voice, Video & Data System | recieved $100K by mgmnt challenge to GSE Controls Intgration Project to keep this above the line. | 3/31/2004 | Edelmann JR Julius J
Mangement Challenge to decrease FY05 funding by $100K to
Done
Local intranet

Microsoft Project Web Access

KPRO Fund Source POP Freeze

Note: Only Fund Sources that you are the Fund Source manager of appear in drop down list.

Select a Fund Source	Shuttle Ops (Shuttle Operations Support)
Select a POP Year	2004

▽ Discipline	▽ Project	▽ Freeze Date	▽ UnFreeze Date

--------- OPTIONS ---------

Save

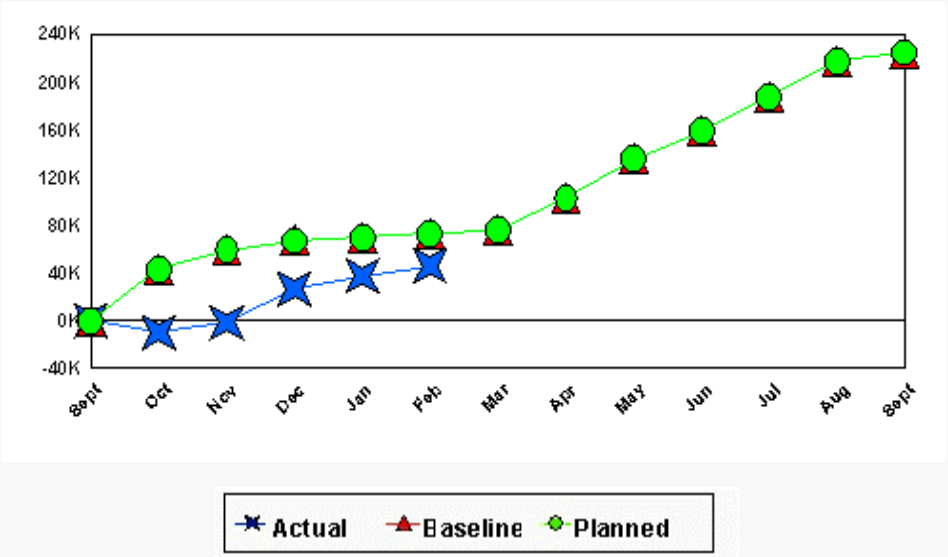
DO NOT fill in a date if you want to freeze/unfreeze NOW.

	Future Freeze/Unfreeze Date
◉ **Freeze:** All	(MM/DD/YYYY)
○ **UnFreeze:** All	(MM/DD/YYYY)
○ **Freeze by Discipline:** Bio-Chem Labs	(MM/DD/YYYY)
○ **UnFreeze by Discipline:** Bio-Chem Labs	(MM/DD/YYYY)
○ **UnFreeze by PTDS:** DIGITAL VOICE RECORDERS	(MM/DD/YYYY)
○ **Freeze by PTDS:** DIGITAL VOICE RECORDERS	(MM/DD/YYYY)

top

Project: LOX PUMP QUALIFICATION	Funding Source LSE	MonthFeb 2003
PM: Lundberg Michael D	ADVOCATE: McCaskey JR Coleman E	Partners: EDC, PH, SFOC, YA

FISCAL YEAR: 2003



Prev Mth	Assessment	Curr Mth
R	Schedule	R
R	Cost-YTD	R
Y	Technical	G
Y	Risk	G

DESCRIPTION:
Perform qualification tests on two LOX pumps leading to certification of the pumps as Line Replaceable Unit(s) for use at the operational Shuttle Pads.

Baseline YTD ($K)
$73.0

Variance YTD: R
-37.0 %

Actual YTD ($K)
$46.0

BAC FY ($K)
$225.0

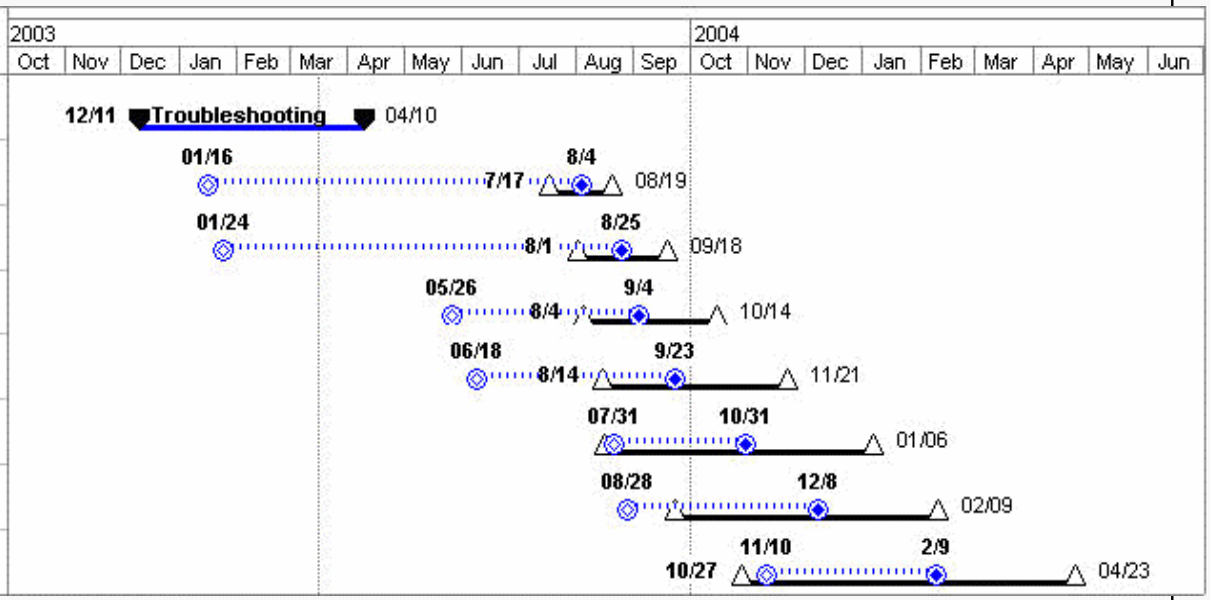
Variance FY: G
0.0 %

***EAC FY ($K)**
$225.0

STATUS:

12/11/02 Radial bearing failure.
Troubleshooting continues.
Schedule: approx. 2 month slip, advocate briefed
Cost-YTD: Slightly behind, mainly due to an adjustment of $26k credit in September from EDC.
Expect $29k EOFY variance (includes $26k credit).
Cost-EAC: Variance (+$17k) due to troubleshooting and additional procurements.
Schedule rebaseline April 1, 2003 for EVM activities.
Schedule below shows milestone slip to 'most likely' date, triangles indicate 'best' and 'worst'

ID	Task Name
77	Troubleshooting-Radial Bearing Anomaly
145	Pump #1 Waterflow Testing Complete
167	Pump #2 Waterflow Testing Complete
211	Pump #1 LN2 Testing Complete
221	Pump #2 LN2 Testing Complete
238	Pump #2 LOX Testing Complete
254	Pump #1 LOX Testing Complete
268	Project Closed

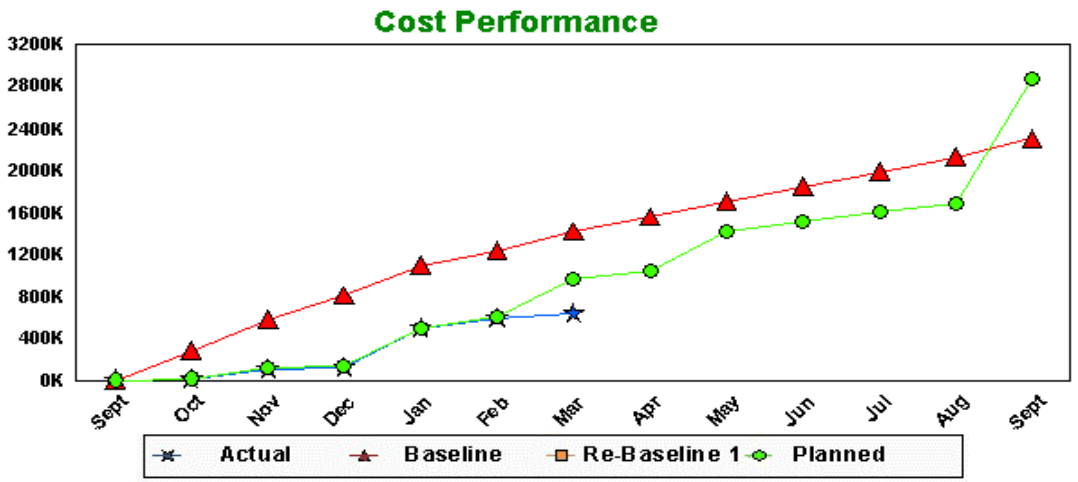


* 4th Qtr variance is calculated against September Cost Actuals instead of EAC.

(Assessment: G=No Impact, Y=Recover this FY, R=Rephase next FY) | (Variance: G: <= 5%, Y: > 5% & <= 15%, R: > 15%)

- March 2003 Cost Performance Review

Project: NAVAIDS FLIGHT INSPECTION SYSTEM	Status Date:
NASA Project Manager:Lundberg Michael D	Customer: -



Month	Technical	Schedule	Cost	Risk
Oct	G	G	R	G
Nov	G	G	R	G
Dec	G	G	R	G
Jan	G	G	R	G
Feb	G	G	R	G
Mar	G	G	R	G
Apr	-	-	-	-
May	-	-	-	-
June	-	-	-	-
July	-	-	-	-
Aug	-	-	-	-
Sept	-	-	-	-

	YTD B/L	YTD Actual	YTD Variance %	BAC	EAC	EOY Variance %
NAVAIDS FLIGHT INSPECTION SYSTEM	$1418 K	$630 K	-56.00	$2303 K	$2879 K	25.00
LSE	$1418 K	$630 K	-56.00	$2303 K	$2879 K	25.00
YA	$1328 K	$482 K	-64.00	$2038 K	$2394 K	25.00
YA-3741020.52	K	$482 K		K	K	
YA-3741020.5881	K	$0 K		K	K	
EDC	$61 K	$135 K	120.00	$209 K	$376 K	25.00
SFOC	$29 K	$13 K	-54.00	$56 K	$109 K	25.00

Project Description

Project Status / Variance & Explanation

Action Plan

BASELINE PMR STATUS REPORT

Fund Source = LSE; Fiscal Year = 2004; Discipline = (All); Project = (All); BPO = (All);

(Cum Dollars in Thousands)

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
FISCAL YEAR: 2004													
FUND SOURCE TOTAL: LSE - Launch Site Equipment													
	COMP	19342	20376	20653	21890	22320	22700	22752	22769	25907	25918	25918	25918
	COMA	0	0	1	2903	1453	1834	2072	2084				
	OP	18007	19802	20281	21256	21895	22643	22747	22754	25892	25918	25918	25918
	OA	0	0	1	1	1453	1694	1850	2019				
Pt Yr. 6620	CP	1460	3250	5575	9713	12912	14950	17500	19738	23125	24474	26432	28439
	CA	1000	2600	4393	7109	8220	10671	12186	13648				
	CV %	-32	-20	-21	-27	-36	-29	-30	-31				
DISC TOTAL: Bio-Chem Labs - Biological and Chemical Test & Analysis Labs													
	COMP	40	40	40	42	42	42	42	42	42	42	42	42
	COMA	0	0	0	0	0	0	0	0				
	OP	40	40	40	40	42	42	42	42	42	42	42	42
	OA	0	0	0	0	0	0	0	0				
Pt Yr. 0	CP	3	7	10	13	17	20	25	28	32	35	39	42
	CA	1	7	9	9	9	11	12	16				
	CV %	-85	12	-8	-31	-43	-44	-51	-45				
Project Total: HYPER SPILL DETECTION SYSTEM											Project Mgr: Lawhorn Teresa M		
	COMP	40	40	40	42	42	42	42	42	42	42	42	42
	COMA	0	0	0	0	0	0	0	0				
	OP	40	40	40	40	42	42	42	42	42	42	42	42
	OA	0	0	0	0	0	0	0	0				
Pt Yr.0	CP	3	7	10	13	17	20	25	28	32	35	39	42
	CA	1	7	9	9	9	11	12	16				
	CV %	-85	12	-8	-31	-43	-44	-51	-45				
BPO: USTDC													
	COMP	40	40	40	40	40	40	40	40	40	40	40	40
	COMA	0	0	0	0	0	0	0	0				
	OP	40	40	40	40	40	40	40	40	40	40	40	40
	OA	0	0	0	0	0	0	0	0				
Pt Yr. 0	CP	3	7	10	13	17	20	23	26	30	33	37	40
	CA	1	7	9	9	9	11	12	16				
	CV %	-100	0	-10	-31	-47	-45	-48	-39				
BPO: YA													
	COMP	0	0	0	2	2	2	2	2	2	2	2	2

APPROVED PMR STATUS REPORT

Selection Criteria for Report: Fund Source = LSE; Fiscal Year = 2004; Discipline = (All); Project = (All); BPO = (All);

(Cum Dollars in Thousands)

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
FISCAL YEAR: 2004													
FUND SOURCE TOTAL: LSE - Launch Site Equipment													
	COMP	12229	12267	12350	13801	13782	14684	16896	19653	25633	26311	26767	27811
	COMA	0	0	1	2903	1453	1834	2072	2084				
	OP	12229	12256	12271	12320	13782	14520	16410	18154	25234	26062	26767	27811
	OA	0	0	1	1	1453	1694	1850	2019				
Pr Yr. 9770	CP	1115	2748	4785	5942	8357	11166	12487	14213	16777	21448	26441	33267
	CA	1000	2600	4393	7109	8220	10671	12186	13648				
	CV %	-10	-5	-8	20	-2	-4	-2	-4				
DISC TOTAL: Bio-Chem Labs - Biological and Chemical Test & Analysis Labs													
	COMP	0	0	0	0	0	0	4	11	16	21	26	31
	COMA	0	0	0	0	0	0	0	0				
	OP	0	0	0	0	0	0	4	9	16	21	26	31
	OA	0	0	0	0	0	0	0	0				
Pr Yr. 11	CP	1	7	9	9	9	11	15	20	25	30	37	42
	CA	1	7	9	9	9	11	12	16				
	CV %	0	0	0	0	0	0	-18	-23				
Project Total: HYPER SPILL DETECTION SYSTEM											Project Mgr: Lawhorn Teresa M		
	COMP	0	0	0	0	0	0	4	11	16	21	26	31
	COMA	0	0	0	0	0	0	0	0				
	OP	0	0	0	0	0	0	4	9	16	21	26	31
	OA	0	0	0	0	0	0	0	0				
Pr Yr. 11	CP	1	7	9	9	9	11	15	20	25	30	37	42
	CA	1	7	9	9	9	11	12	16				
	CV %	0	0	0	0	0	0	-18	-23				
BPO: USTDC													
	COMP	0	0	0	0	0	0	4	9	14	19	24	29
	COMA	0	0	0	0	0	0	0	0				
	OP	0	0	0	0	0	0	4	9	14	19	24	29
	OA	0	0	0	0	0	0	0	0				
Pr Yr. 11	CP	1	7	9	9	9	11	15	20	25	30	35	40
	CA	1	7	9	9	9	11	12	16				
	CV %	-100	0	0	0	0	0	-20	-20				
BPO: YA													
	COMP	0	0	0	0	0	0	0	2	2	2	2	2
	COMA	0	0	0	0	0	0	0	0				
	OP	0	0	0	0	0	0	0	0	2	2	2	2
	OA	0	0	0	0	0	0	0	0				